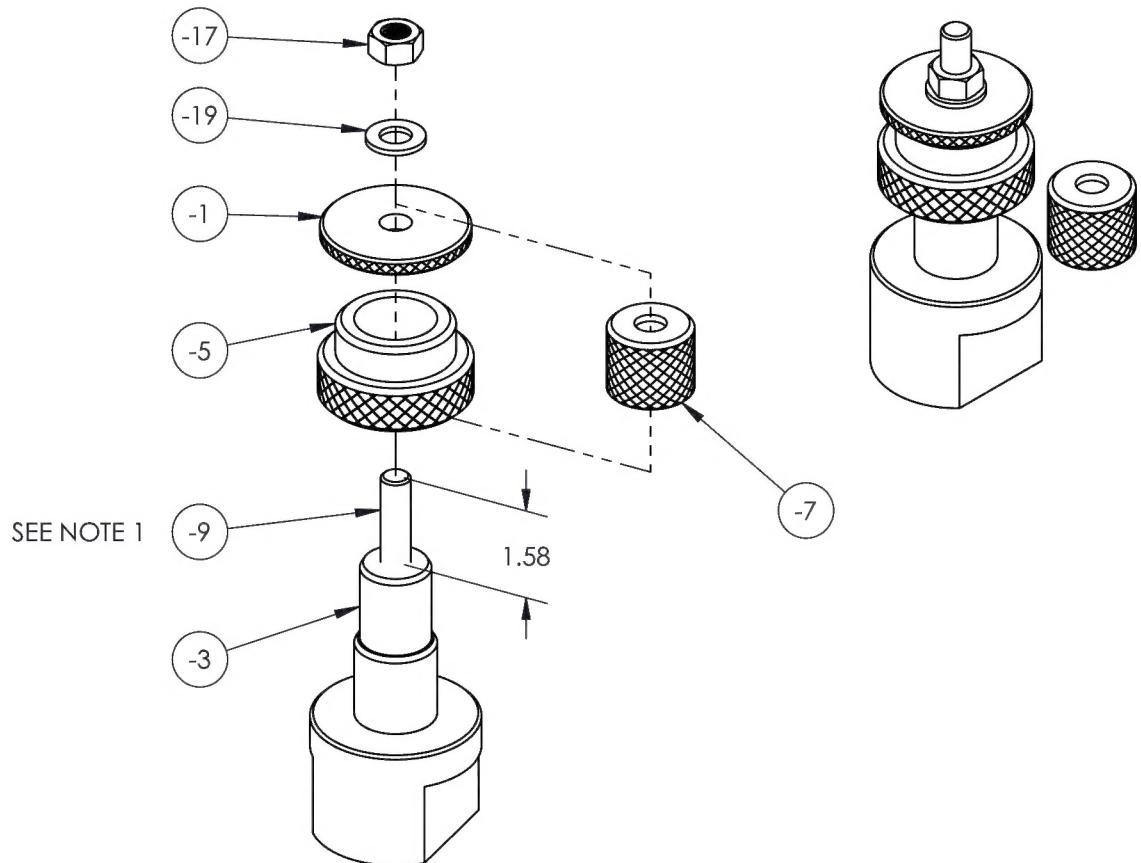
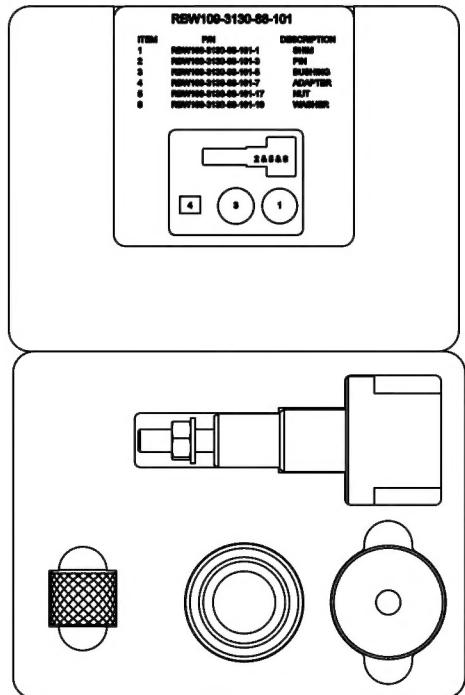


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	SHT 8 CORRECTED LAYOUT #'S. 3 WAS 5, 2 & 5 & 6 WAS 1 & 5 & 6.	11/30/2012	JAG	
1A	-11 DIM WAS 9.19 IS 9.41. -13 DIM WAS 7.12 IS 7.19, CHANGED PLACARD CUTOUT DEPTH WAS .06 IS .125.	1/3/2013	BIM	SE



NOTE:  
USE PERMANENT THREAD LOCKER ON -9 STUD.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	SHIM	4140 Q & T	Ø2-1/2 X 3/8	2
			-3	1	PIN	4140 Q & T	Ø2-3/4 X 4-7/8	3
			-5	1	BUSHING	4140 Q & T	Ø2-5/8 X 1-1/2	4
			-7	1	ADAPTER	4140 Q & T	Ø1-3/8 X 1-5/16	5
B/O		-9	1	STUD	STEEL	M12 X 1.75 X 60mm	MCMASTER-CARR #93675A370	1
		-11	1	BOTTOM TOOL CUSHION	Y-20, BLACK	9.19 X 7.23 X 2.93		6
		-13	1	TOP TOOL CUSHION	C200 BLACK, FLAT	7.12 X 9.37 X 1.19		7
		-15	1	PLACARD	ALUMINUM	1/16 X 5 X 5		8
B/O		-17	1	NUT	STEEL	M12 X 1.75	MCMASTER-CARR #92497A500	1
B/O		-19	1	WASHER	STEEL	M12	MCMASTER-CARR #91166A290	1
B/O		-21	1	CASE	PLASTIC	PELICAN APP-1200-E		NS

RED BARN MACHINE		
TITLE		REV
T/R HUB TRUNNION CENTERING		1A
DWG NO.		RBW109-3130-88-101
MATTL		DRAWN BY: GILBERT
APPROVED		D Weil
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		HEAT TREAT FINISH
.XXX ± .005		FRACTIONS ± 1/32
.XX ± .01		ANGLES ± .5°
.X ± .1		SPEC
1. BREAK ALL SHARP EDGES .015 x 45°		USED ON MODEL
OR .015R		AW119
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
SCALE	1:3	DATE 1/31/2012
		SHEET 1 OF 8

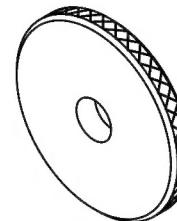
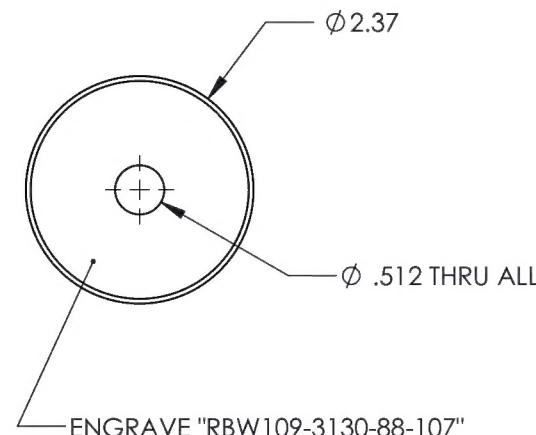
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

MEDIUM KNURL

2X .05 X 45°

.275



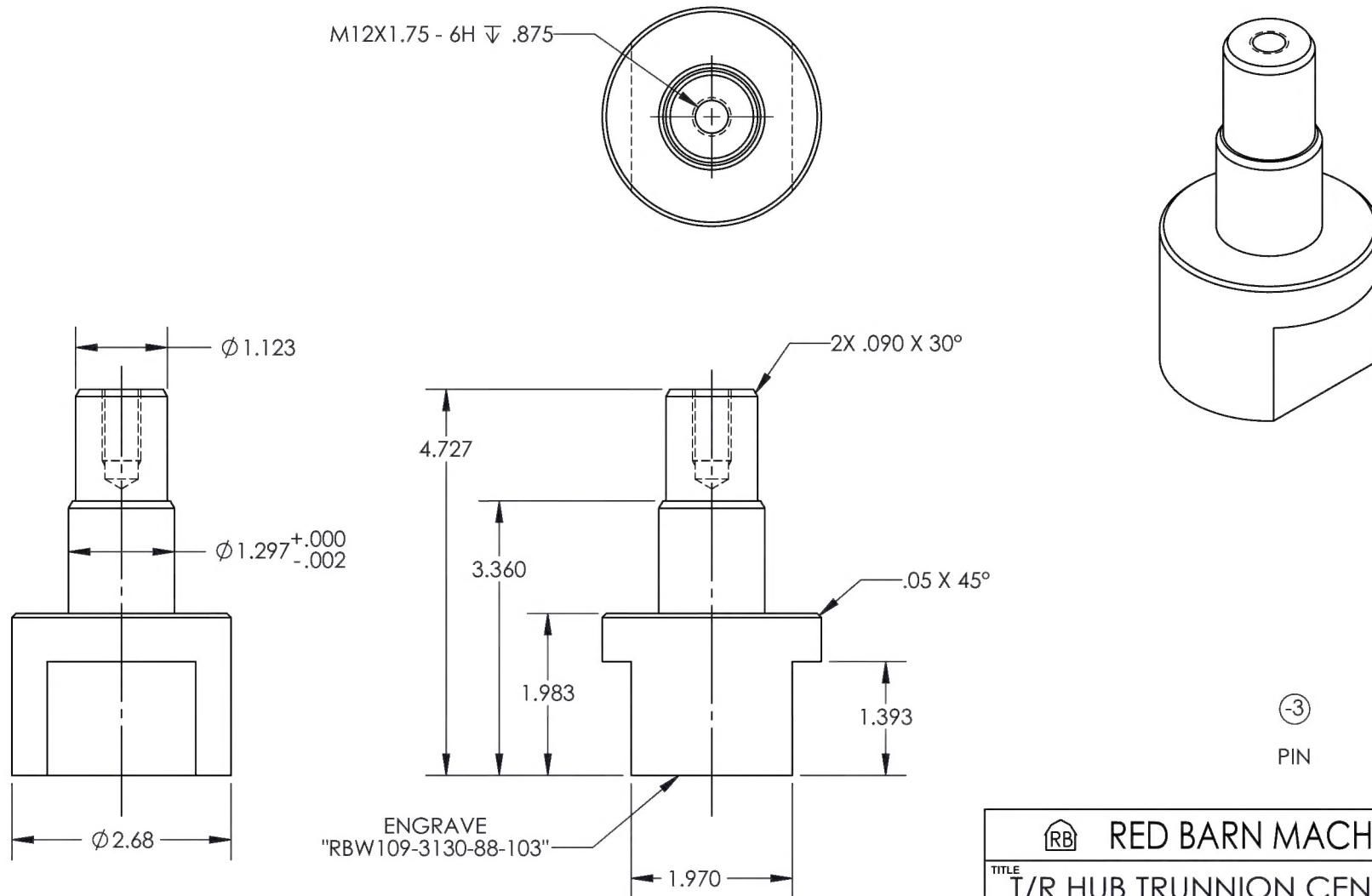
(-1)

SHIM

RED BARN MACHINE	
TITLE	
T/R HUB TRUNNION CENTERING	
DWG NO.	RBW109-3130-88-101-1
REV	1A
MATL	4140 Q & T
DRAWN BY: GILBERT	
APPROVED <i>D Weil</i>	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/32	
.XX ± .01 ANGLES ± .5°	
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45°	
OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
HEAT TREAT FINISH CAD PLATE YELLOW	
SPEC QQ-P-416F, TYPE II, CLASS II	
USED ON MODEL	
AW119	
SCALE	1:2
DATE	1/31/2012
SHEET 2 OF 8	

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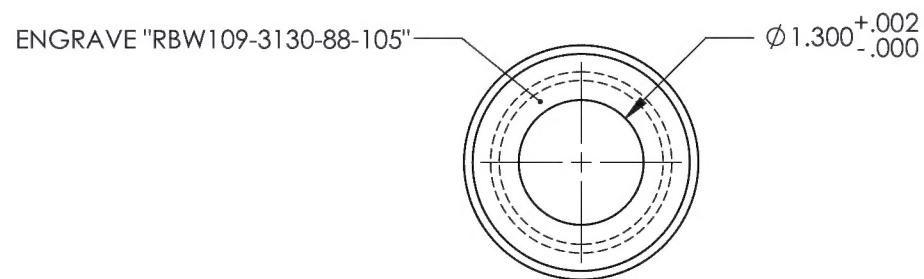
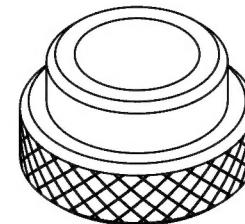
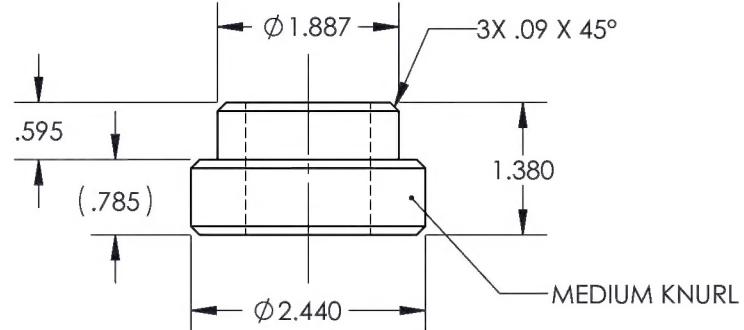
REV		DESCRIPTION		DATE	INITIAL	APPROVED
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RB		RED BARN MACHINE	
TITLE		T/R HUB TRUNNION CENTERING	
DWG NO.	RBW109-3130-88-101-3		REV 1A
MATL	4140 Q & T	DRAWN BY:	GILBERT <i>D Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
.XXX ± .005	FRACTIONS ± 1/32	HEAT TREAT	
.XX ± .01	ANGLES ± .5°	FINISH	CAD PLATE YELLOW
.X ± .1		SPEC	QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AW119	
SCALE	1:2	DATE	1/31/2012
SHEET 3 OF 8			

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REVISONS			
REV	DESCRIPTION	DATE	INITIAL APPROVED



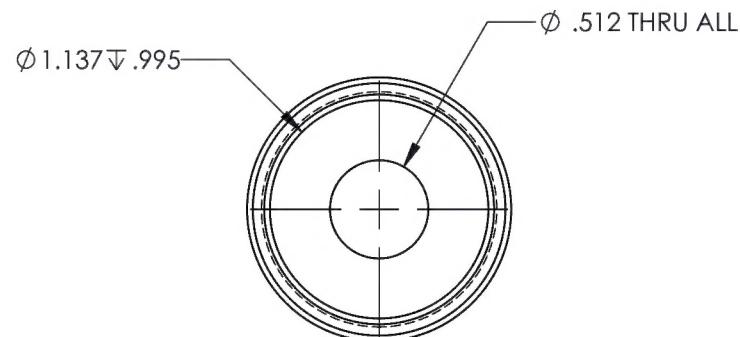
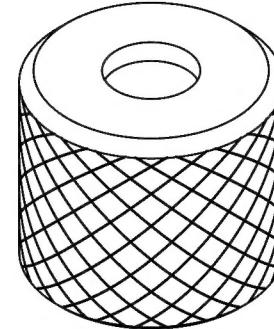
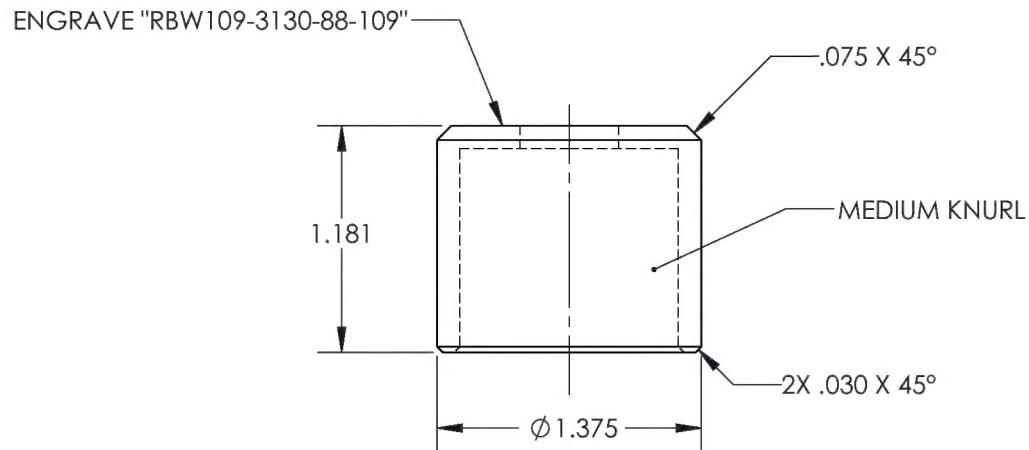
(-5)

BUSHING

	RED BARN MACHINE
TITLE	T/R HUB TRUNNION CENTERING
DWG NO.	RBW109-3130-88-101-5
MATL	4140 Q & T
UNLESS OTHERWISE SPECIFIED	DRAWN BY: GILBERT
DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH CAD PLATE YELLOW
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC QQ-P-416F, TYPE II, CLASS II
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE 1/31/2012
	SHEET 4 OF 8

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REVISONS			
REV	DESCRIPTION	DATE	INITIAL APPROVED



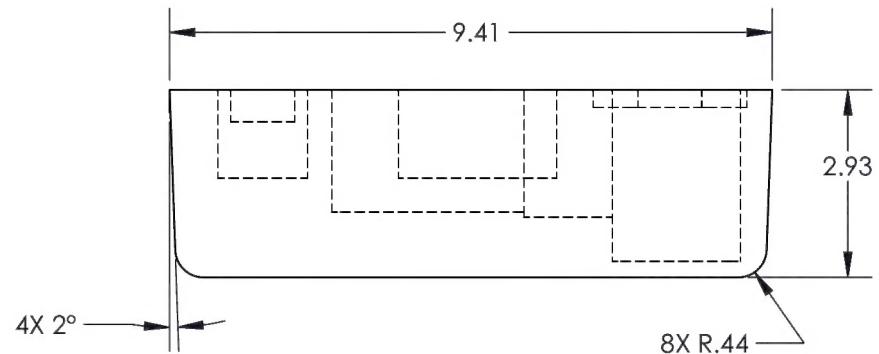
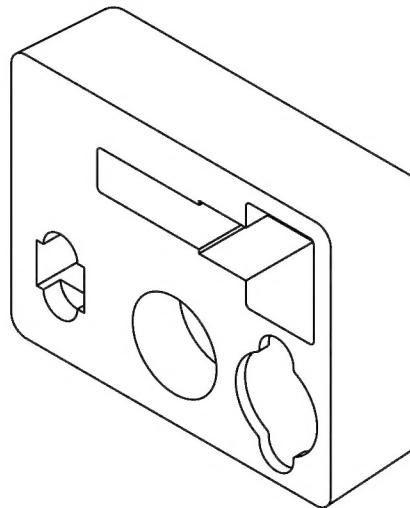
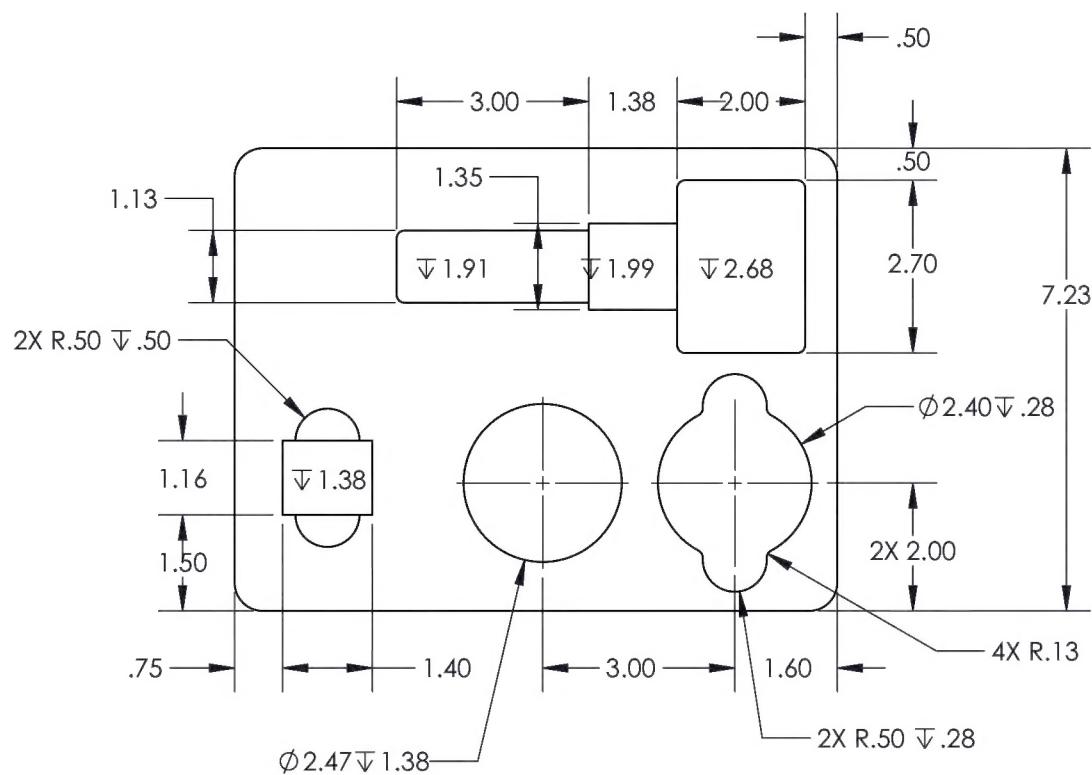
(-7)

ADAPTER

	RED BARN MACHINE	
TITLE	T/R HUB TRUNNION CENTERING	
DWG NO.	RBW109-3130-88-101-7	REV 1A
MATL	4140 Q & T	DRAWN BY: GILBERT
	UNLESS OTHERWISE SPECIFIED	APPROVED <i>D Weil</i>
	DIMENSIONS ARE IN INCHES	HEAT TREAT
	.XXX ± .005	FINISH CAD PLATE YELLOW
	.XX ± .01	SPEC QQ-P-416F, TYPE II, CLASS II
	.X ± .1	ANGLES ± .5°
	1. BREAK ALL SHARP EDGES .015 x 45°	USED ON MODEL
	OR .015R	AW119
	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:2	DATE 1/31/2012
		SHEET 5 OF 8

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1A	DIM WAS 9.19 IS 9.41	1/3/2013	BIM	SE



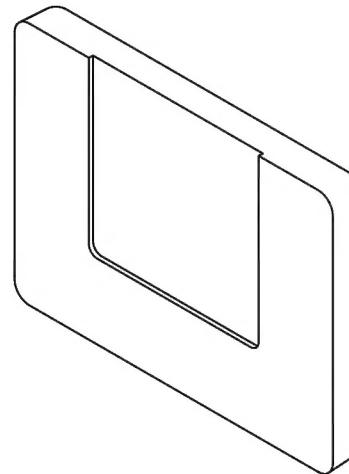
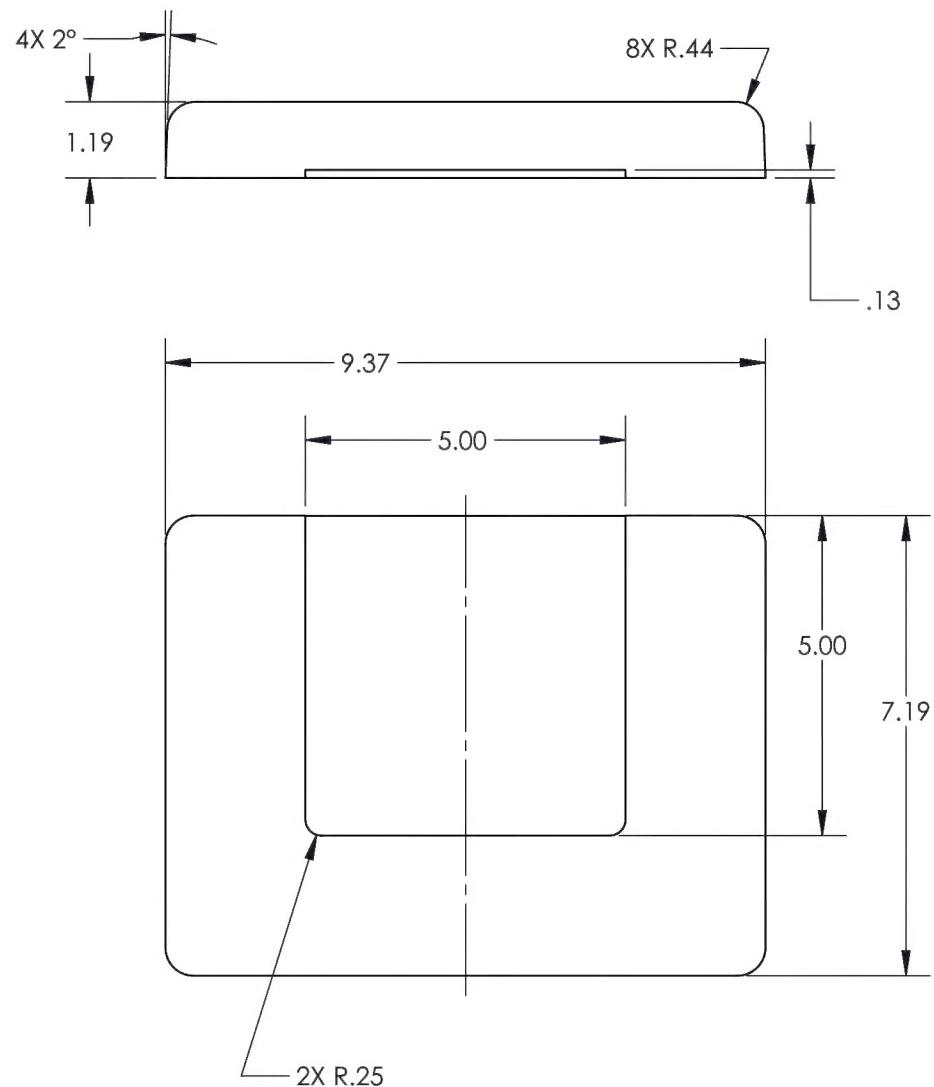
(-11)

BOTTOM TOOL CUSHION

	<b>RED BARN MACHINE</b>	REV 1A
TITLE	<b>T/R HUB TRUNNION CENTERING</b>	
DWG NO.	<b>RBW109-3130-88-101-11</b>	REV 1A
MATL	<b>Y-20, BLACK</b>	DRAWN BY: <b>GILBERT</b>
UNLESS OTHERWISE SPECIFIED		APPROVED <b>D Weil</b>
DIMENSIONS ARE IN INCHES		HEAT TREAT FINISH
.XXX ± .005	FRACTIONS ± 1/32	
.XX ± .01	ANGLES ± .5°	
.X ± .1		SPEC
1. BREAK ALL SHARP EDGES .015 x 45°		USED ON MODEL
OR .015R		AW119
2. DIMENSIONAL LIMITS APPLY AFTER		
PLATING		
SCALE	<b>1:3</b>	DATE <b>1/31/2012</b>
		SHEET <b>6 OF 8</b>

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1A	DIM WAS 7.12 IS 7.19, CHANGED PLACARD CUTOUT DEPTH WAS .06 IS .125	1/3/2013	BIM	JG



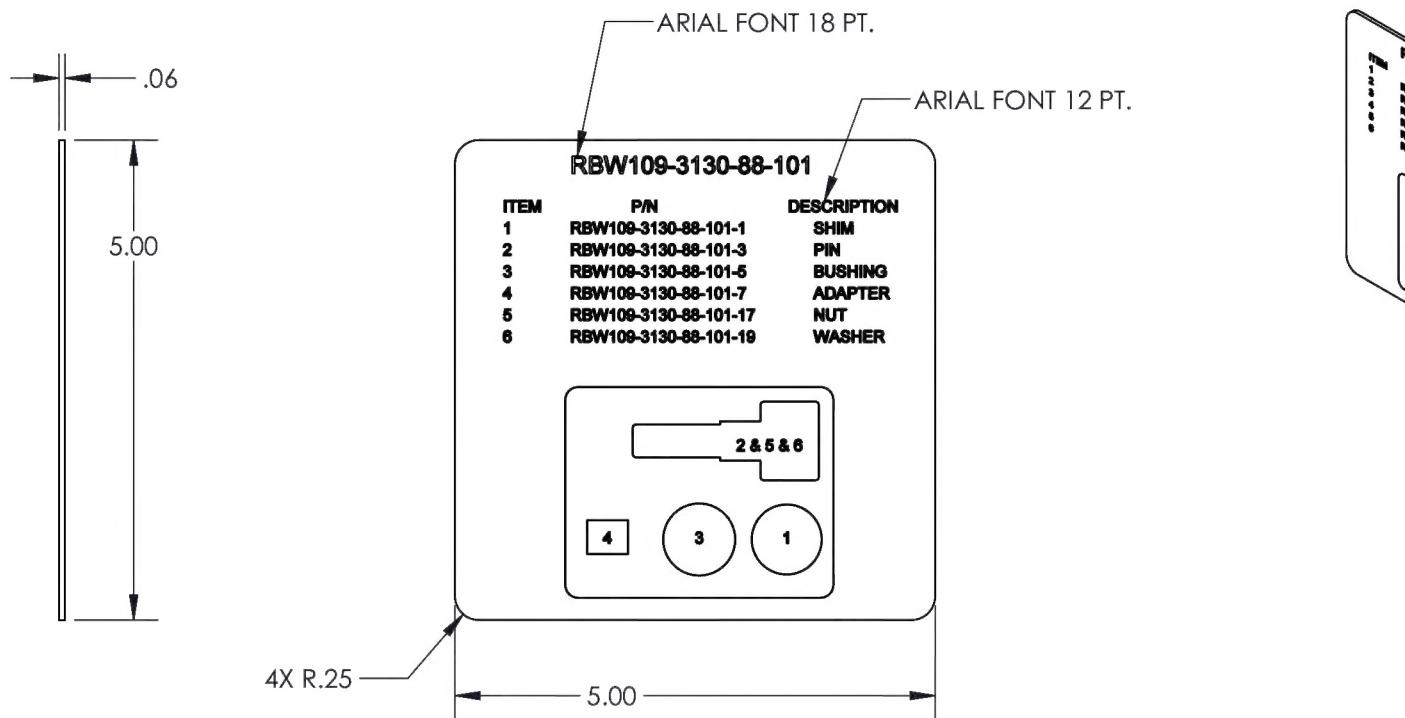
(-13)

TOP TOOL CUSHION

	RED BARN MACHINE	
TITLE	T/R HUB TRUNNION CENTERING	
DWG NO.	RBW109-3130-88-101-13	REV 1A
MATL	C200 BLACK, FLAT	DRAWN BY: GILBERT
	UNLESS OTHERWISE SPECIFIED	APPROVED <i>D Weil</i>
	DIMENSIONS ARE IN INCHES	HEAT
	.XXX ± .005	TREAT
	.XX ± .01	FINISH
	.X ± .1	ANGLES ± .5°
	1. BREAK ALL SHARP EDGES .015 x 45°	SPEC
	OR .015R	USED ON MODEL
	2. DIMENSIONAL LIMITS APPLY AFTER	AW119
	PLATING	
SCALE	1:3	DATE 1/31/2012
		SHEET 7 OF 8

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	CORRECTED LAYOUT #'S, 3 WAS 5, 2 & 5 & 6 WAS 1 & 5 & 6.	11/30/2012	JAG	SE



(-15)

	RED BARN MACHINE	
TITLE		T/R HUB TRUNNION CENTERING
DWG NO.	RBW109-3130-88-101-15	REV 1A
MATL.	ALUMINUM	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>
.XXX ± .005		HEAT
.XX ± .01		TREAT
.X ± .1		FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL
		AW119
SCALE	1:2	DATE 1/31/2012
		SHEET 8 OF 8